

PATNO IS 4981784

Ley's search

DATE: SEPTEMBER 20, 2001
LIBRARY: PATENT
FILE: ALL

Your search request is:
PATNO IS 4981784

Number of PATENTS found with your search request through:
LEVEL 1... 1

Your search request has found 1 PATENT through Level 1.
To DISPLAY this PATENT press either the KWIC, FULL, CITE or SEGMENTS key.
To MODIFY your search request, press the M key (for MODIFY) and then the ENTER key.

For further explanation, press the H key (for HELP) and then the ENTER key.

LEVEL 1 - 1 PATENT

1. 4,981,784, Jan. 1, 1991, Retinoic acid receptor method, Evans, Ronald M., La Jolla, California Ong, Estelita, San Diego, California Segui, Prudimar S., San Diego, California Thompson, Catherine C., La Jolla, California Umesono, Kazuhiko, San Diego, California Giguere, Vincent, Etobicoke, Canada, The Salk Institute for Biological Studies, San Diego, California (02), Date Transaction Recorded: Dec. 28, 1993 ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS). SALK INSTITUTE FOR BIOLOGICAL STUDIES, THE 10010 NORTH TORREY PINES ROAD LA JOLLA, CA 92037 Reel & Frame Number: 6811/0114

CORE TERMS: domain, acid, retinoic, protein, receptor, hormone, chimeric, gene, cell, sequence...

LEVEL 1 - 1 OF 1 PATENT

4,981,784

<=2> GET 1st DRAWING SHEET OF 13

Jan. 1, 1991

Retinoic acid receptor method

LIT-REEX: NOTICE OF LITIGATION

Ligand Pharmaceuticals, Inc., et al v. La Jolla Cancer Research Foundation,
et al, Filed Dec. 10, 1993, D.C. S.D. California, Doc. No. 93-1895IEG (CM)

CORE TERMS: domain, acid, retinoic, protein, receptor, hormone, chimeric, gene,
cell, sequence...

QUESTEL.ORBIT

?file lgst

Selected file: LGST

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For information on content, ..INFO LGST

Search statement 1

?/pn us4981784

** SS 1: Results 1

Search statement 2

?prt pset 1

1/1 LGST - (C) LEGSTAT

Patent Number -US 4981784 [US4981784]
Application Number -US 276536/88 19881130 [1988US-0276536]
Document Type -US-P
Action Taken -19881130 US/AE-A
APPLICATION DATA (PATENT)
{US 276536/88 19881130 [1988US-0276536]}
-19890123 US/AS02
ASSIGNMENT OF ASSIGNOR'S INTEREST
SALK INSTITUTE FOR BIOLOGICAL STUDIES, THE, SAN DIEGO,
CA A CA NOT-FOR-PROFIT CO * EVANS, RONALD M. : 19881202;
ONG, ESTELITA S. : 19881202; SEGUI, PRUDIMAR S. :
19881202; THOMPSON, CATHERINE C : 19881202;
-19910101 US/A
PATENT
-19931228 US/AS02
ASSIGNMENT OF ASSIGNOR'S INTEREST
SALK INSTITUTE FOR BIOLOGICAL STUDIES, THE 10010 NORTH

TORREY PINES ROAD LA JOLL * GIGUERE, VINCENT : 19881209
Update Code -1999-17

Search statement 2

?file lita

Selected file: LITA

You are now connected to LitAlert,(c) Derwent Information Ltd
Covers 1970 thru weekly update (2001-36)
For technical content information : see INFO LITA

Search statement 1

?nbr /pn us4981784

1	2	US4980815
2	1	US4981091
3	1	US4981402
4	2	US4981431
5	1	US4981784
6	1	US4981797
7	1	US4982412
8	1	US4982605
9	3	US4982682
10	1	US4982842
11	3	US4983067
12	1	US4983124
13	1	US4983222
14	1	US4983379
15	2	US4983434

Some: numbers / Continue: Y / None: N

?5

** SS 1: Results 1
Continue: Y / N

?prt pset 1

1/1 LITA - (C) LITALERT

Accession Number	-P1994-01-18
File Segment	-PATENT (P)
Patent Number	-US4981784 19910101 (Utility)
Plaintiffs	-Ligand Pharmaceuticals Inc; Allergan Ligand
Defendants	-La Jolla Cancer Research Foundation; -Selectra Pharmaceuticals Inc; -SRI Intl
Court	-CA, Southern Dist.
Docket Number	-93-1895IEG(CM)
Filing Date	-1993-12-10
Action	-A complaint was filed.
Other Patents Nbrs	-US5071518 -US5071773 -US5171671

Search statement 2

?file past

Selected file: PAST

You are now connected to PAST, (c) Derwent Information Ltd
Covers 1973 thru weekly update (2001-36)
Information on technical content of this file, see INFO PAST

Search statement 1

?nbr /pn us4981784

1	1	US4981772
2	1	US4981777
3	1	US4981779
4	1	US4981782
5	1	US4981784
6	1	US4981785
7	1	US4981788
8	1	US4981789
9	1	US4981790
10	1	US4981791
11	1	US4981792
12	1	US4981793
13	1	US4981794
14	1	US4981797
15	1	US4981803

Some: numbers / Continue: Y / None: N

?5

** SS 1: Results 1

Continue: Y / N

?prt pset 1

1/1 PAST - (C) PAST

Accession Number -199402-000701

Patent Number -4981784 A [US4981784]

Actions -PATENT SUIT

File 345:Inpadoc/Fam.& Legal Stat 1968-2001/UD=200135
(c) 2001 EPO

Set	Items	Description
S1	1	PN=US 4981784

1/9/1

DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat
(c) 2001 EPO. All rts. reserv.

8788796

Basic Patent (No,Kind,Date): WO 8905355 A1 19890615 <No. of Patents: 031>

PATENT FAMILY:

AUSTRIA (AT)

Patent (No,Kind,Date): AT 124721 E 19950715

RETINOESAEURE-REZEPTOR-KOMPOSITION UND VERFAHREN ZUR LIGAND-IDENTIFIZIERUNG. (German)

Patent Assignee: SALK INST FOR BIOLOGICAL STUDI (US)

Author (Inventor): EVANS RONALD MARK (US); GIGUERE VINCENT (CA); ONG ESTELITA SEBASTIAN (US); SEGUI PRUDIMAR SERRANO (US); UMESONO KAZUHIKO (US); THOMPSON CATHERINE CAROLINE (US)

Priority (No,Kind,Date): US 128331 A 19871202; US 276536 A 19881130

Applic (No,Kind,Date): EP 88311477 A 19881202

Addnl Info: 00325849 19950705

IPC: * C12N-015/12; C12P-021/02; C12N-015/62; C12N-005/10; C12Q-001/68

CA Abstract No: * 114(13)116377E

Derwent WPI Acc No: * C 89-192701

Language of Document: German

Patent (No,Kind,Date): AT 182685 E 19990815

VERFAHREN ZUR IDENTIFIZIERUNG VON LIGANDEN FUER RETINSAEUREREZEPTOREN (German)

Patent Assignee: SALK INST FOR BIOLOGICAL STUDI (US)

Author (Inventor): EVANS RONALD MARK (US); GIGUERE VINCENT (CA); ONG ESTELITA SEBASTIAN (US); SEGUI PRUDIMAR SERRANO (US); UMESONO KAZUHIKO (US); THOMPSON CATHERINE CAROLINE (US)

Priority (No,Kind,Date): US 128331 A 19871202; US 276536 A 19881130

Applic (No,Kind,Date): EP 92121951 A 19881202

Addnl Info: 540065 19990728

IPC: * G01N-033/68; G01N-033/74; C12N-015/12; C07K-014/705

CA Abstract No: * 114(13)116377E

Derwent WPI Acc No: * C 89-192701

Language of Document: German

AUSTRIA (AT)

Legal Status (No,Type,Date,Code,Text):

AT 124721	R	19950715	AT REF	CORRESPONDS TO EP-PATENT (ENTSPRICHT EP-PATENT)
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EP 325849 P 19950705

AT 124721	R	19960115	AT UEP	PUBLICATION OF TRANSLATION OF EUROPEAN PATENT SPECIFICATION (UEBERSETZUNG DER EUROPAEISCHEN PATENTSCHRIFT AUSGEGEBEN)
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AT 124721	R	20000915	AT REN	CEASED DUE TO NON-PAYMENT OF THE ANNUAL FEE (ERLOSCHEN INFOLGE NICHTZ. D. JAHRESGEB.)
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AT 182685	R	19990815	AT REF	CORRESPONDS TO EP-PATENT (ENTSPRICHT EP-PATENT)
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EP 540065 P 19990728
AT 182685 R 20000115 AT RER CEASED AS TO PARAGRAPH 5
LIT. 3 LAW INTRODUCING PATENT TREATIES
(ERLOSCHEN GEM. PAR. 5 ABS. 3 PATVEG.)

AUSTRALIA (AU)

Patent (No,Kind,Date): AU 8928188 A1 19890705
RETINOIC ACID RECEPTOR COMPOSITION AND METHOD (English)
Patent Assignee: SALK INST FOR BIOLOGICAL STUDI
Author (Inventor): EVANS RONALD MARK; GIGUERE VINCENT; ONG ESTELITA
SEBASTIAN; SEGUI PRUDIMAR SERRANO; UMESONO KAZUHIKO; THOMPSON
CATHERINE CAROLINE
Priority (No,Kind,Date): WO 88US4284 A 19881201; US 128331 A
19871202; US 276536 A 19881130
Applic (No,Kind,Date): AU 8928188 A 19881201
IPC: * C12P-021/02; C12P-019/34; C12P-015/00; C07H-015/12; C12Q-001/68
; C12N-005/00; C12N-001/00; C07K-013/00
Language of Document: English
Patent (No,Kind,Date): AU 9230268 A1 19930422
CHIMERIC RECEPTORS AND METHODS FOR IDENTIFICATION (English)
Patent Assignee: SALK INST FOR BIOLOGICAL STUDI
Author (Inventor): EVANS RONALD MARK; GIGUERE VINCENT; ONG ESTELITA
SEBASTIAN; SEGUI PRUDIMAR SERRANO; UMESONO KAZUHIKO; THOMPSON
CATHERINE CAROLINE
Priority (No,Kind,Date): US 128331 A 19871202
Applic (No,Kind,Date): AU 9230268 A 19921217
IPC: * C12N-015/12; C07K-013/00
CA Abstract No: * 114(13)116377E
Derwent WPI Acc No: * C 89-192701
Language of Document: English
Patent (No,Kind,Date): AU 628312 B2 19920917
RETINOIC ACID RECEPTOR COMPOSITION AND METHOD (English)
Patent Assignee: SALK INST FOR BIOLOGICAL STUDI
Author (Inventor): EVANS RONALD MARK; GIGUERE VINCENT; ONG ESTELITA
SEBASTIAN; SEGUI PRUDIMAR SERRANO; UMESONO KAZUHIKO; THOMPSON
CATHERINE CAROLINE
Priority (No,Kind,Date): WO 88US4284 A 19881201; US 128331 A
19871202; US 276536 A 19881130
Applic (No,Kind,Date): AU 8928188 A 19881201
IPC: * C12P-021/02; C12P-019/34; C12P-015/00; C12Q-001/68; C12N-005/00
; C12N-001/00; C07K-013/00; C12N-015/12; C12N-005/10; G01N-033/68;
C07K-015/12
CA Abstract No: * 114(13)116377E
Derwent WPI Acc No: * C 89-192701
Language of Document: English
Patent (No,Kind,Date): AU 665039 B2 19951214
CHIMERIC RECEPTORS AND METHODS FOR IDENTIFICATION (English)
Patent Assignee: SALK INST FOR BIOLOGICAL STUDI
Author (Inventor): EVANS RONALD MARK; GIGUERE VINCENT; ONG ESTELITA
SEBASTIAN; SEGUI PRUDIMAR SERRANO; UMESONO KAZUHIKO; THOMPSON
CATHERINE CAROLINE
Priority (No,Kind,Date): US 128331 A 19871202
Applic (No,Kind,Date): AU 9230268 A 19921217
IPC: * C12N-015/12; C07K-013/00
CA Abstract No: * 114(13)116377E
Derwent WPI Acc No: * C 89-192701
Language of Document: English

GERMANY (DE)

Patent (No,Kind,Date): DE 3854120 C0 19950810

RETINOESAEURE-REZEPTOR-KOMPOSITION UND VERFAHREN ZUR
LIGAND-IDENTIFIZIERUNG. (German)

Patent Assignee: SALK INST FOR BIOLOGICAL STUDI (US)

Author (Inventor): EVANS RONALD MARK (US); GIGUERE VINCENT (CA); ONG
ESTELITA SEBASTIAN (US); SEGUI PRUDIMAR SERRANO (US); UMESONO
KAZUHIKO (US); THOMPSON CATHERINE CAROLINE (US)

Priority (No,Kind,Date): US 128331 A 19871202; US 276536 A
19881130

Applic (No,Kind,Date): DE 3854120 A 19881202

IPC: * C12N-015/12; C12P-021/02; C12N-015/62; C12N-005/10; C12Q-001/68

CA Abstract No: * 114(13)116377E

Derwent WPI Acc No: * C 89-192701

Language of Document: German

Patent (No,Kind,Date): DE 3856354 C0 19990902

VERFAHREN ZUR IDENTIFIZIERUNG VON LIGANDEN FUER RETINSAEUREREZEPTOREN
(German)

Patent Assignee: SALK INST FOR BIOLOGICAL STUDI (US)

Author (Inventor): EVANS RONALD MARK (US); GIGUERE VINCENT (CA); ONG
ESTELITA SEBASTIAN (US); SEGUI PRUDIMAR SERRANO (US); UMESONO
KAZUHIKO (US); THOMPSON CATHERINE CAROLINE (US)

Priority (No,Kind,Date): US 128331 A 19871202; US 276536 A
19881130

Applic (No,Kind,Date): DE 3856354 A 19881202

IPC: * G01N-033/68; G01N-033/74; C12N-015/12; C07K-014/705

CA Abstract No: * 114(13)116377E

Derwent WPI Acc No: * C 89-192701

Language of Document: German

Patent (No,Kind,Date): DE 3854120 T2 19960111

RETINOESAEURE-REZEPTOR-KOMPOSITION UND VERFAHREN ZUR
LIGAND-IDENTIFIZIERUNG. (German)

Patent Assignee: SALK INST FOR BIOLOGICAL STUDI (US)

Author (Inventor): EVANS RONALD MARK (US); GIGUERE VINCENT (CA); ONG
ESTELITA SEBASTIAN (US); SEGUI PRUDIMAR SERRANO (US); UMESONO
KAZUHIKO (US); THOMPSON CATHERINE CAROLINE (US)

Priority (No,Kind,Date): US 128331 A 19871202; US 276536 A
19881130

Applic (No,Kind,Date): DE 3854120 A 19881202

IPC: * C12Q-001/68; C12N-005/10; C12N-015/62; C12P-021/02; C12N-015/12

CA Abstract No: * 114(13)116377E

Derwent WPI Acc No: * C 89-192701

Language of Document: German

Patent (No,Kind,Date): DE 3856354 T2 19991216

VERFAHREN ZUR IDENTIFIZIERUNG VON LIGANDEN FUER RETINSAEUREREZEPTOREN
(German)

Patent Assignee: SALK INST FOR BIOLOG STUDIES L (US)

Author (Inventor): EVANS RONALD MARK (US); GIGUERE VINCENT (CA); ONG
ESTELITA SEBASTIAN (US); SEGUI PRUDIMAR SERRANO (US); UMESONO
KAZUHIKO (US); THOMPSON CATHERINE CAROLINE (US)

Priority (No,Kind,Date): US 128331 A 19871202; US 276536 A
19881130

Applic (No,Kind,Date): DE 3856354 A 19881202

IPC: * G01N-033/68; G01N-033/74; C12N-015/12; C07K-014/705

CA Abstract No: * 114(13)116377E

Derwent WPI Acc No: * C 89-192701

Language of Document: German

GERMANY (DE)

Legal Status (No,Type,Date,Code,Text):

DE 3854120 P 19950810 DE REF

CORRESPONDS TO (ENTSPRICHT)

			EP 325849	P	19950810	
DE 3854120	P	19960111	DE 8373			TRANSLATION OF PATENT DOCUMENT OF EUROPEAN PATENT WAS RECEIVED AND HAS BEEN PUBLISHED (UEBERSETZUNG DER PATENTSCHRIFT DES EUROPÄISCHEN PATENTES IST EINGEGANGEN UND VEROEFFENTLICHT WORDEN)
DE 3854120	P	19960808	DE 8364			NO OPPOSITION DURING TERM OF OPPOSITION (EINSPRUCHSFRIST ABGELAUFEN OHNE DASS EINSPRUCH ERHOBEN WURDE)
DE 3856354	P	19990902	DE REF			CORRESPONDS TO (ENTSPRICHT)
			EP 540065	P	19990902	
DE 3856354	P	19991216	DE 8373			TRANSLATION OF PATENT DOCUMENT OF EUROPEAN PATENT WAS RECEIVED AND HAS BEEN PUBLISHED (UEBERSETZUNG DER PATENTSCHRIFT DES EUROPÄISCHEN PATENTES IST EINGEGANGEN UND VEROEFFENTLICHT WORDEN)

DENMARK (DK)

Patent (No,Kind,Date): DK 9001368 A 19900601
 RETINSYRERECEPTORMIDDEL OG FREMGANGSMAADE (Danish)
 Patent Assignee: SALK INST FOR BIOLOGICAL STUDI (US)
 Author (Inventor): EVANS RONALD MARK; THOMPSON CATHERINE CAROLINE;
 GIGUERE VINCENT; ONG ESTELITA SEBASTIAN; SEGUI PRUDIMAR SERRANO;
 UMESONO KAZUHIKO
 Priority (No,Kind,Date): US 128331 A 19871202; US 276536 A
 19881130; WO 88US4284 A 19881201
 Applic (No,Kind,Date): DK 901368 A 19900601
 IPC: * C12N-015/12; C07K-013/00; C12N-015/85
 Derwent WPI Acc No: * C 89-192701
 Language of Document: Danish

Patent (No,Kind,Date): DK 9001368 A0 19900601
 RETINSYRERECEPTORMIDDEL OG FREMGANGSMAADE (Danish)
 Patent Assignee: SALK INST FOR BIOLOGICAL STUDI (US)
 Author (Inventor): EVANS RONALD MARK; THOMPSON CATHERINE CAROLINE;
 GIGUERE VINCENT; ONG ESTELITA SEBASTIAN; SEGUI PRUDIMAR SERRANO;
 UMESONO KAZUHIKO
 Priority (No,Kind,Date): US 128331 A 19871202; US 276536 A
 19881130; WO 88US4284 A 19881201
 Applic (No,Kind,Date): DK 901368 A 19900601
 IPC: * C12N-015/12; C07K-013/00; C12N-015/85
 Derwent WPI Acc No: * C 89-192701
 Language of Document: Danish

DENMARK (DK)

Legal Status (No,Type,Date,Code,Text):

DK 901368	A	19871202	DK AAA	PRIORITY OF THE APPLICATION (PATENT APPLICATION) (PRIORITY OF THE APPL. (PATENT APPL.))
			US 128331 A	19871202
DK 901368	A	19881130	DK AAA	PRIORITY OF THE APPLICATION (PATENT APPLICATION) (PRIORITY OF THE APPL. (PATENT APPL.))
			US 276536 A	19881130
DK 901368	A	19881201	DK AAA	PRIORITY OF THE APPLICATION (PATENT APPLICATION) (PRIORITY OF THE APPL. (PATENT APPL.))
			WO 88US4284 A	19881201
DK 901368	A	19900601	DK A	PUBLISHED APPLICATION
DK 901368	A	19900601	DK AEA	DATA OF DOMESTIC APPLICATION

(DATA OF DOMESTIC APPL.)
DK 901368 A 19900601
DK 901368 A 20000731 DK AHB APPLICATION SHELVED DUE TO
NON-PAYMENT (ANSOEGNING HENLAGT P.G.A.
MANGLENDE BETALING)

EUROPEAN PATENT OFFICE (EP)

Patent (No,Kind,Date): EP 540065 A1 19930505
RETINOIC ACID RECEPTOR COMPOSITION (English; French; German)
Patent Assignee: SALK INST FOR BIOLOGICAL STUDI (US)
Author (Inventor): EVANS RONALD MARK (US); GIGUERE VINCENT (CA); ONG
ESTELITA SEBASTIAN (US); SEGUI PRUDIMAR SERRANO (US); UMESONO
KAZUHIKO (US); THOMPSON CATHERINE CAROLINE (US)
Priority (No,Kind,Date): US 128331 A 19871202; US 276536 A
19881130
Applic (No,Kind,Date): EP 92121951 A 19881202
Designated States: (National) AT; BE; CH; DE; ES; FR; GB; GR; IT; LI;
LU; NL; SE
IPC: * C12N-015/12; C12N-015/62; G01N-033/68; G01N-033/74; C12N-005/10
CA Abstract No: * 114(13)116377E
Derwent WPI Acc No: * C 89-192701
Language of Document: English
Patent (No,Kind,Date): EP 325849 A2 19890802
RETINOIC ACID RECEPTOR COMPOSITION AND METHOD FOR IDENTIFYING LIGANDS
(English; French; German)
Patent Assignee: SALK INST FOR BIOLOGICAL STUDI (US)
Author (Inventor): EVANS RONALD MARK (US); GIGUERE VINCENT (CA); ONG
ESTELITA SEBASTIAN (US); SEGUI PRUDIMAR SERRANO (US); UMESONO
KAZUHIKO (US); THOMPSON CATHERINE CAROLINE (US)
Priority (No,Kind,Date): US 128331 A 19871202; US 276536 A
19881130
Applic (No,Kind,Date): EP 88311477 A 19881202
Designated States: (National) AT; BE; CH; DE; ES; FR; GB; GR; IT; LI;
LU; NL; SE
IPC: * C12N-015/00; C07H-021/04; C12P-021/02; C12N-005/00
CA Abstract No: * 114(13)116377E
Derwent WPI Acc No: * C 89-192701
Language of Document: English
Patent (No,Kind,Date): EP 325849 A3 19911016
RETINOIC ACID RECEPTOR COMPOSITION AND METHOD FOR IDENTIFYING LIGANDS
(English; French; German)
Patent Assignee: SALK INST FOR BIOLOGICAL STUDI (US)
Author (Inventor): EVANS RONALD MARK; GIGUERE VINCENT; ONG ESTELITA
SEBASTIAN; SEGUI PRUDIMAR SERRANO; UMESONO KAZUHIKO; THOMPSON
CATHERINE CAROLINE
Priority (No,Kind,Date): US 128331 A 19871202; US 276536 A
19881130
Applic (No,Kind,Date): EP 88311477 A 19881202
Designated States: (National) AT; BE; CH; DE; ES; FR; GB; GR; IT; LI;
LU; NL; SE
IPC: * C12N-015/00; C07H-021/04; C12P-021/02; C12N-005/00
CA Abstract No: * 114(13)116377E
Derwent WPI Acc No: * C 89-192701
Language of Document: English
Patent (No,Kind,Date): EP 325849 B1 19950705
RETINOIC ACID RECEPTOR COMPOSITION AND METHOD FOR IDENTIFYING LIGANDS.
(English; French; German)
Patent Assignee: SALK INST FOR BIOLOGICAL STUDI (US)
Author (Inventor): EVANS RONALD MARK (US); GIGUERE VINCENT (CA); ONG
ESTELITA SEBASTIAN (US); SEGUI PRUDIMAR SERRANO (US); UMESONO

KAZUHIKO (US); THOMPSON CATHERINE CAROLINE (US)
 Priority (No,Kind,Date): US 128331 A 19871202; US 276536 A 19881130
 Applic (No,Kind,Date): EP 88311477 A 19881202
 Designated States: (National) AT; BE; CH; DE; ES; FR; GB; GR; IT; LI; LU; NL; SE
 IPC: * C12N-015/12; C12P-021/02; C12N-015/62; C12N-005/10; C12Q-001/68
 CA Abstract No: * 114(13)116377E
 Derwent WPI Acc No: * C 89-192701
 Language of Document: English
 Patent (No,Kind,Date): EP 540065 B1 19990728
 METHOD FOR IDENTIFYING LIGANDS FOR RETINOIC ACID RECEPTORS (English; French; German)
 Patent Assignee: SALK INST FOR BIOLOGICAL STUDI (US)
 Author (Inventor): EVANS RONALD MARK (US); GIGUERE VINCENT (CA); ONG ESTELITA SEBASTIAN (US); SEGUI PRUDIMAR SERRANO (US); UMESONO KAZUHIKO (US); THOMPSON CATHERINE CAROLINE (US)
 Priority (No,Kind,Date): EP 88311477 A3 19881202; US 128331 A 19871202; US 276536 A 19881130
 Applic (No,Kind,Date): EP 92121951 A 19881202
 Designated States: (National) AT; BE; CH; DE; ES; FR; GB; GR; IT; LI; LU; NL; SE
 IPC: * G01N-033/68; G01N-033/74; C12N-015/12; C07K-014/705
 CA Abstract No: * 114(13)116377E
 Derwent WPI Acc No: * C 89-192701
 Language of Document: English

EUROPEAN PATENT OFFICE (EP)

Legal Status (No,Type,Date,Code,Text):

EP 325849	P	19871202	EP AA	PRIORITY (PATENT APPLICATION)	(PRIORITAET (PATENTANMELDUNG))
EP 325849	P	19881130	EP AA	US 128331 A 19871202 PRIORITY (PATENT APPLICATION)	(PRIORITAET (PATENTANMELDUNG))
EP 325849	P	19881202	EP AE	US 276536 A 19881130 EP-APPLICATION	(EUROPAEISCHE ANMELDUNG)
EP 325849	P	19890802	EP AK	EP 88311477 A 19881202 DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT (IN EINER ANMELDUNG OHNE RECHERCHENBERICHT BENANNTE VERTRAGSSTAATEN)	
EP 325849	P	19890802	EP A2	AT BE CH DE ES FR GB GR IT LI LU NL SE PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT (VEROEFFENTLICHUNG DER ANMELDUNG OHNE RECHERCHENBERICHT)	
EP 325849	P	19911016	EP AK	DESIGNATED CONTRACTING STATES IN A SEARCH REPORT (IN EINEM RECHERCHENBERICHT BENANNTE VERTRAGSSTAATEN)	
EP 325849	P	19911016	EP A3	AT BE CH DE ES FR GB GR IT LI LU NL SE SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93) (GESONDERTE VEROEFFENTLICHUNG DES RECHERCHENBERICHTS (ART. 93))	
EP 325849	P	19920527	EP 17P	REQUEST FOR EXAMINATION FILED (PRUEFUNGSANTRAG GESTELLT)	

EP 325849	P	920326 19920819 EP 17Q	FIRST EXAMINATION REPORT (ERSTER PRUEFUNGSBESCHEID)
EP 325849	P	920706 19930505 EP AH	DIVISIONAL APPLICATION (ART. 76) IN: (TEILANMELDUNG (ART. 76) IN:)
EP 325849	P	EP 540065 P 19930526 EP RIN1	INVENTOR (CORRECTION) (ERFINDER (KORR.)) EVANS, RONALD MARK, ; GIGUERE, VINCENT, ; ONG, ESTELITA SEBASTIAN, ; SEGUI, PRUDIMAR SERRANO ; UMESONO, KAZUHIKO, ; THOMPSON, CATHERINE CAROLINE
EP 325849	P	19930609 EP RIN1	INVENTOR (CORRECTION) (ERFINDER (KORR.)) EVANS, RONALD MARK, ; GIGUERE, VINCENT, ; ONG, ESTELITA SEBASTIAN, ; SEGUI, PRUDIMAR SERRANO ; UMESONO, KAZUHIKO, ; THOMPSON, CATHERINE CAROLINE
EP 325849	P	19950705 EP AK	DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION (IN EINER PATENTSCHRIFT ANGEFUEHRTE BENANNT VERTRAGSSTAATEN)
EP 325849	P	19950705 EP B1	PATENT SPECIFICATION (PATENTSCHRIFT)
EP 325849	P	19950705 EP REF	IN AUSTRIA REGISTERED AS: (IN AT EINGETRAGEN ALS:) AT 124721 R 19950715
EP 325849	P	19950705 EP XX	MISCELLANEOUS: (DIVERSES:)
EP 325849	P	19950713 EP ET	TEILANMELDUNG 92121951.5 EINGEREICHT AM 02/12/88. FR: TRANSLATION FILED (FR: TRADUCTION A ETE REMISE)
EP 325849	P	19950717 EP ITF	IT: TRANSLATION FOR AN EP PATENT FILED (IT: DEPOSITO TRADUZIONE DI BREVETTO EUROPEO) DR. ING. A. RACHELI & C.
EP 325849	P	19950810 EP REF	CORRESPONDS TO: (ENTSPRICHT) DE 3854120 P 19950810
EP 325849	P	19950816 ES FG2A/REG	DEFINITIVE PROTECTION (PROTECCION DEFINITIVA) 2073408T3
EP 325849	P	19960703 EP 26N	NO OPPOSITION FILED (KEIN EINSRUCH EINGELEGT)
EP 325849	P	19990728 EP AH	DIVISIONAL APPLICATION (ART. 76) IN: (TEILANMELDUNG (ART. 76) IN:)
EP 325849	P	EP 540065 P 20000630 EP BERE	BE: LAPSED (BE: DECHU) 19991231 THE ;SALK INSTITUTE FOR BIOLOGICAL STUDIES
EP 325849	P	20000814 EP EUG	SE: EUROPEAN PATENT HAS LAPSED (SE: EUROPEISKT PATENT HAR UPPHOERT ATT GAELLA) 88311477.9
EP 325849	P	20000901 EP NLV4	NL: LAPSED OR ANULLED DUE TO NON-PAYMENT OF THE ANNUAL FEE (NL: VERVALLEN WEGENS NIET BETALEN VAN EEN JAARCIJNS)

			20000701	
EP 540065	P	19871202	EP AA	PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))
			US 128331 A	19871202
EP 540065	P	19881130	EP AA	PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))
			US 276536 A	19881130
EP 540065	P	19881202	EP AA	DIVIDED OUT OF (AUSSCHIEDUNG AUS)
			EP 88311477 A3	19881202
EP 540065	P	19881202	EP AE	EP-APPLICATION (EUROPAEISCHE ANMELDUNG)
			EP 92121951 A	19881202
EP 540065	P	19930505	EP AC	DIVISIONAL APPLICATION (ART. 76) OF: (TEILANMELDUNG (ART. 76) AUS:)
			EP 325849 P	
EP 540065	P	19930505	EP AK	DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT (IN EINER ANMELDUNG BENANNT VERTRAGSSTAATEN)
			AT BE CH DE ES FR GB GR IT LI LU NL SE	
EP 540065	P	19930505	EP A1	PUBLICATION OF APPLICATION WITH SEARCH REPORT (VEROEFFENTLICHUNG DER ANMELDUNG MIT RECHERCHENBERICHT)
EP 540065	P	19930526	EP RIN1	INVENTOR (CORRECTION) (ERFINDER (KORR.))
			EVANS, RONALD MARK ; GIGUERE, VINCENT ; ONG, ESTELITA SEBASTIAN ; SEGUI, PRUDIMAR SERRANO ; UMESONO, KAZUHIKO ; UMESONO, KAZUHIKO	
EP 540065	P	19930623	EP RIN1	INVENTOR (CORRECTION) (ERFINDER (KORR.))
			EVANS, RONALD MARK ; GIGUERE, VINCENT ; ONG, ESTELITA SEBASTIAN ; SEGUI, PRUDIMAR SERRANO ; UMESONO, KAZUHIKO ; UMESONO, KAZUHIKO	
EP 540065	P	19930707	EP RIN1	INVENTOR (CORRECTION) (ERFINDER (KORR.))
			EVANS, RONALD MARK ; GIGUERE, VINCENT ; ONG, ESTELITA SEBASTIAN ; SEGUI, PRUDIMAR SERRANO ; UMESONO, KAZUHIKO ; UMESONO, KAZUHIKO	
EP 540065	P	19930721	EP RIN1	INVENTOR (CORRECTION) (ERFINDER (KORR.))
			EVANS, RONALD MARK ; GIGUERE, VINCENT ; ONG, ESTELITA SEBASTIAN ; SEGUI, PRUDIMAR SERRANO ; UMESONO, KAZUHIKO ; THOMPSON, CATHERINE CAROLINE	
EP 540065	P	19930818	EP 17P	REQUEST FOR EXAMINATION FILED (PRUEFUNGSANTRAG GESTELLT)
			930621	
EP 540065	P	19960320	EP 17Q	FIRST EXAMINATION REPORT (ERSTER PRUEFUNGSBESCHIED)
			960205	
EP 540065	P	19990728	EP AC	DIVISIONAL APPLICATION (ART. 76) OF: (TEILANMELDUNG (ART. 76) AUS:)
			EP 325849 P	
EP 540065	P	19990728	EP AK	DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION: (IN EINER PATENTSCHRIFT ANGEFUEHRTE BENANNT VERTRAGSSTAATEN)

		AT	BE	CH	DE	ES	FR	GB	GR	IT	LI	LU	NL	SE
EP 540065	P	19990728	EP B1	PATENT SPECIFICATION (PATENTSCHRIFT)										
EP 540065	P	19990728	EP REF	IN AUSTRIA REGISTERED AS: (IN AT EINGETRAGEN ALS:)										
			AT 182685 R	19990815										
EP 540065	P	19990730	CH EP/REG	ENTRY IN THE NATIONAL PHASE (EINTRITT IN DIE NATIONALE PHASE)										
EP 540065	P	19990902	EP REF	CORRESPONDS TO: (ENTSPRICHT)										
			DE 3856354 P	19990902										
EP 540065	P	19991001	EP ET	FR: TRANSLATION FILED (FR: TRADUCTION A ETE REMISE)										
EP 540065	P	20000103	EP NLV1	NL: LAPSED OR ANNULLED DUE TO FAILURE TO FULFILL THE REQUIREMENTS OF ART. 29P AND 29M OF THE PATENTS ACT; NO LEGAL EFFECT FROM THE DATE OF (NL: WIRKUNG IN NL NICHT EINGETRETEN (ART. 29P UND 29M NL PATG.))										
EP 540065	P	20000131	CH PL/REG	PATENT CEASED (LOESCHUNG/RADIATION/RADIAZION)										
EP 540065	P	20000614	EP 25	LAPSED AS TO RULE 92 1 P (ERLOSCHEN GEM. REGEL 92 1 P)										
			AT 19990728											
EP 540065	P	20000614	EP 25	LAPSED AS TO RULE 92 1 P (ERLOSCHEN GEM. REGEL 92 1 P)										
			AT 19990728											
EP 540065	P	20000621	EP 26	OPPOSITION FILED (EINSPRUCH EINGELEGT)										
			20000425	SMITHKLINE BEECHAM PLC										
EP 540065	P	20001213	EP 25	LAPSED AS TO RULE 92 1 P (ERLOSCHEN GEM. REGEL 92 1 P)										
			AT 19990728											
EP 540065	P	20001213	EP 25	LAPSED AS TO RULE 92 1 P (ERLOSCHEN GEM. REGEL 92 1 P)										
			AT 19990728											
EP 540065	P	20001213	EP 25	LAPSED AS TO RULE 92 1 P (ERLOSCHEN GEM. REGEL 92 1 P)										
			AT 19990728											
EP 540065	P	20001213	EP 25	LAPSED AS TO RULE 92 1 P (ERLOSCHEN GEM. REGEL 92 1 P)										
			AT 19990728											
EP 540065	P	20001227	EP R25	LAPSED AS TO RULE 92 1 P (CORRECTION) (ERLOSCHEN GEM. REGEL 92 1 P (KORR.))										
			AT 19990728											
EP 540065	P	20001227	EP R25	LAPSED AS TO RULE 92 1 P (CORRECTION) (ERLOSCHEN GEM. REGEL 92 1 P (KORR.))										
			AT 19990728											
EP 540065	P	20001227	EP R25	LAPSED AS TO RULE 92 1 P (CORRECTION) (ERLOSCHEN GEM. REGEL 92 1 P (KORR.))										
			AT 19990728											
EP 540065	P	20001227	EP R25	LAPSED AS TO RULE 92 1 P (CORRECTION) (ERLOSCHEN GEM. REGEL 92 1 P (KORR.))										
			AT 19990728											
EP 540065	P	20010606	EP 25	LAPSED AS TO RULE 92 1 P (ERLOSCHEN GEM. REGEL 92 1 P)										

AT 19990728
 EP 540065 P 20010606 EP 25 LAPSED AS TO RULE 92 1 P
 (ERLOSCHEN GEM. REGEL 92 1 P)
 AT 19990728
 EP 540065 P 20010606 EP 25 LAPSED AS TO RULE 92 1 P
 (ERLOSCHEN GEM. REGEL 92 1 P)
 AT 19990728
 EP 540065 P 20010606 EP 25 LAPSED AS TO RULE 92 1 P
 (ERLOSCHEN GEM. REGEL 92 1 P)
 AT 19990728
 EP 540065 P 20010606 EP 25 LAPSED AS TO RULE 92 1 P
 (ERLOSCHEN GEM. REGEL 92 1 P)
 AT 19990728

SPAIN (ES)

Patent (No,Kind,Date): ES 2073408 T3 19950816
 COMPOSICION DE RECEPTOR DE ACIDO RETINOICO Y METODO PARA IDENTIFICAR
 LIGANDOS. (Spanish)
 Patent Assignee: SALK INST FOR BIOLOGICAL STUDI
 Author (Inventor): EVANS RONALD MARK (US); GIGUERE VINCENT (CA); ONG
 ESTELITA SEBASTIAN (US); SEGUI PRUDIMAR SERRANO (US); UMESONO
 KAZUHIKO (US); THOMPSON CATHERINE CAROLINE (US)
 Priority (No,Kind,Date): US 128331 A 19871202; US 276536 A
 19881130
 Applic (No,Kind,Date): ES 88311477 EP 19881202
 Addnl Info: 0325849 EP patent valid in AT
 IPC: * C12N-015/12; C12P-021/02; C12N-015/62; C12N-005/10; C12Q-001/68
 CA Abstract No: * 114(13)116377E
 Derwent WPI Acc No: * C 89-192701
 Language of Document: Spanish

SPAIN (ES)

Legal Status (No,Type,Date,Code,Text):
 ES 2073408 P 19950816 ES FG2A DEFINITIVE PROTECTION
 (PROTECCION DEFINITIVA)
 325849

IRELAND (IE)

Patent (No,Kind,Date): IE 9668590 B 19960626
 RETINOIC ACID RECEPTOR COMPOSITION AND METHOD FOR IDENTIFYING LIGANDS
 (English)
 Patent Assignee: SALK INST FOR BIOLOGICAL STUDI (US)
 Author (Inventor): EVANS RONALD MARK; GIGUERE VINCENT; ONG ESTELITA
 SEBASTIAN; SEGUI PRUDIMAR SERRANO; UMESONO KAZUHIKO
 Priority (No,Kind,Date): US 128331 A 19871202; US 276536 A
 19881130
 Applic (No,Kind,Date): IE 883621 A 19881202
 IPC: * C12N-015/12; C12N-015/62; C12P-021/02; C12Q-001/68
 CA Abstract No: * 114(13)116377E
 Derwent WPI Acc No: * C 89-192701
 Language of Document: English

IRELAND (IE)

Legal Status (No,Type,Date,Code,Text):
 IE 68590 P 20000920 IE MM4A PATENT LAPSED

JAPAN (JP)

Patent (No,Kind,Date): JP 10279599 A2 19981020
 CONFIGURATION OF RFTINOIN RECEPTOR AND METHOD (English)
 Patent Assignee: SALK INST FOR BIOLOGICAL STUDI

Author (Inventor): EVANS RONALD M; GIGUERE VINCENT; ONG ESTELITA
 SEBASTIAN; SEGUI PRUDIMAR SERRANO; UMESONO KAZUHIKO; THOMPSON
 CATHERINE C
 Priority (No,Kind,Date): US 128331 A 19871202; US 276536 A
 19881130
 Applic (No,Kind,Date): JP 97299300 A 19970925
 IPC: * C07K-014/705; C07K-014/72; C07K-019/00; C12N-005/10;
 C12N-015/09; C12P-021/02; C12R-001-91
 CA Abstract No: * 114(13)116377E
 Derwent WPI Acc No: * C 89-192701
 Language of Document: Japanese
 Patent (No,Kind,Date): JP 10295385 A2 19981110
 CONSTITUTION OF RETINOIN RECEPTOR, AND METHOD FOR IDENTIFICATION OF
 FUNCTIONAL LIGAND TO RECEPTOR (English)
 Patent Assignee: SALK INST FOR BIOLOGICAL STUDI
 Author (Inventor): EVANS RONALD M; GIGUERE VINCENT; ONG ESTELITA
 SEBASTIAN; SEGUI PRUDIMAR SERRANO; UMESONO KAZUHIKO; THOMPSON
 CATHERINE C
 Priority (No,Kind,Date): US 128331 A 19871202; US 276536 A
 19881130
 Applic (No,Kind,Date): JP 97299299 A 19970925
 IPC: * C12N-015/09; C07K-014/705; C07K-014/72; C07K-019/00;
 C12P-021/02; G01N-033/15; G01N-033/566; G01N-033/50; C12R-001-91
 CA Abstract No: * 114(13)116377E
 Derwent WPI Acc No: * C 89-192701
 Language of Document: Japanese
 Patent (No,Kind,Date): JP 3006716 B2 20000207
 Patent Assignee: SALK INST FOR BIOLOGICAL STUDI
 Author (Inventor): EUANSU RONARUDO MAAKU; JIGYUURU UINSENTO; ONGU
 ESUTERITA SEBASUCHAN; SEGYUI PURUDEIMAA SERAANO; UMESONO KAZUHIKO;
 TONPUSON KYASARIN KYARORAIN
 Priority (No,Kind,Date): US 128331 A 19871202; US 276536 A
 19881130
 Applic (No,Kind,Date): JP 88500616 A 19881201
 IPC: * C12N-015/09; C07K-014/705; C12N-005/10; C12P-021/02;
 C12R-001-91
 Language of Document: Japanese
 Patent (No,Kind,Date): JP 3503597 T2 19910815
 Priority (No,Kind,Date): WO 88US4284 W 19881201; US 128331 A
 19871202; US 276536 A 19881130
 Applic (No,Kind,Date): JP 89500616 A 19881201
 IPC: * C12N-015/12; C07K-015/06; C12P-021/02; C12R-001-91
 CA Abstract No: * 114(13)116377E
 Derwent WPI Acc No: * C 89-192701
 Language of Document: Japanese

KOREA, REPUBLIC (KR)

Patent (No,Kind,Date): KR 9709951 B1 19970619
 RETINOIC ACID RECEPTOR COMPOSITION AND METHOD (English)
 Patent Assignee: SALK INST FOR BIOLOGICAL STUDI (US)
 Author (Inventor): EVANS RONALD MARK (US); GIGUERE VINCENT (CN); ONG
 ESTELITA SEBASTIN (US); SEGUI PRUDIMAR SERRANO (US); UMESONO
 KAZUHIKO (US); THOMPSON CATHERINE CAROLINE (US)
 Priority (No,Kind,Date): US 128331 A 19871202; US 276536 A
 19881130; WO 88US4284 W 19881201
 Applic (No,Kind,Date): KR 8971441 A 19890801
 IPC: * C12N-015/00; C12P-021/02
 CA Abstract No: * 114(13)116377E
 Derwent WPI Acc No: * C 89-192701
 Language of Document: Korean

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 4981784 A 19910101

RETINOIC ACID RECEPTOR METHOD (English)

Patent Assignee: SALK INST FOR BIOLOGICAL STUDI (US)

Author (Inventor): EVANS RONALD M (US); ONG ESTELITA (US); SEGUI PRUDIMAR S (US); THOMPSON CATHERINE C (US); UMESONO KAZUHIKO (US); GIGUERE VINCENT (CA)

Priority (No,Kind,Date): US 128331 B2 19871202

Applic (No,Kind,Date): US 276536 A 19881130

National Class: * 435006000; 435069100; 435069400; 435069700; 435070100; 435172100; 435172300; 935009000; 935010000; 935013000; 935076000

IPC: * C12Q-001/68; C12P-021/00; C12N-015/00

Derwent WPI Acc No: * C 89-192701

Language of Document: English

Patent (No,Kind,Date): US 5171671 A 19921215

RETINOIC ACID RECEPTOR COMPOSITION (English)

Patent Assignee: SALK INST FOR BIOLOGICAL STUDI (US)

Author (Inventor): EVANS RONALD M (US); ONG ESTELITA S (US); SEGUI PRUDIMAR S (US); THOMPSON CATHERINE C (US); UEMSONO KAZUHIKO (US); GIGUERE VINCENT (CA)

Priority (No,Kind,Date): US 276536 A3 19881130; US 128331 B2 19871202

Applic (No,Kind,Date): US 546256 A 19900806

Addnl Info: 4981784 Patented

National Class: * 435069100; 435069700; 435257300; 435320100; 530350000; 536027000

IPC: * C12N-015/12; C12N-015/62; C12N-015/63; C07K-013/00

CA Abstract No: * 114(13)116377E

Derwent WPI Acc No: * C 89-192701

Language of Document: English

Patent (No,Kind,Date): US 5274077 A 19931228

RETINOIC ACID RECEPTOR COMPOSITION (English)

Patent Assignee: SALK INST FOR BIOLOGICAL STUDI (US)

Author (Inventor): EVANS RONALD M (US); ONG ESTELITA S (US); SEGUI PRUDIMAR S (US); THOMPSON CATHERINE C (US); UMESONO KAZUHIKO (US); GIGUERE VINCENT (CA)

Priority (No,Kind,Date): US 546256 A3 19900806; US 276536 A3 19881130; US 128331 B2 19871202

Applic (No,Kind,Date): US 975777 A 19921113

Addnl Info: 5171671 19921215 Patented; 4981784 19910101 Patented

National Class: * 530350000; 530358000; 435069100; 435252300

IPC: * C07K-013/00; C12N-015/12

CA Abstract No: * 114(13)116377E

Derwent WPI Acc No: * C 89-192701

Language of Document: English

Patent (No,Kind,Date): US 5548063 A 19960820

RETINOIC ACID RECEPTOR ALPHA PROTEINS Retinoic acid receptor alpha proteins (English)

Patent Assignee: SALK INST FOR BIOLOGICAL STUDI (US)

Author (Inventor): EVANS RONALD M (US); ONG ESTELITA S (US); SEGUI PRUDIMAR S (US); THOMPSON CATHERINE C (US); UMESONO KAZUHIKO (US); GIGUERE VINCENT (CA)

Priority (No,Kind,Date): US 179912 A 19940111; US 845857 A1 19920303; US 546570 B3 19900806; US 276536 A3 19881130; US 128331 B2 19871202

Applic (No,Kind,Date): US 179912 A 19940111

Addnl Info: 4981784 Patented

National Class: * 530350000; 530324000; 435069100

IPC: * C07K-014/705
 CA Abstract No: * 114(13)116377E
 Derwent WPI Acc No: * C 89-192701
 Language of Document: English
 Patent (No,Kind,Date): US 5571692 A 19961105
 RETINOIC ACID RECEPTOR ALPHA , VECTORS AND CELLS COMPRISING THE SAME
 DNA ENCODING Retinoic acid receptor alpha , vectors and cells
 comprising the same DNA encoding (English)
 Patent Assignee: SALK INST FOR BIOLOGICAL STUDI (US)
 Author (Inventor): EVANS RONALD M (US); ONG ESTELITA S (US); SEGUI
 PRUDIMAR S (US); THOMPSON CATHERINE C (US); UMESONO KAZUHIKO (US);
 GIGUERE VINCENT (CA)
 Priority (No,Kind,Date): US 168686 A 19931216; US 845857 A1
 19920303; US 546570 B3 19900806; US 276536 A3 19881130; US 128331
 B2 19871202
 Applic (No,Kind,Date): US 168686 A 19931216
 Addnl Info: 4981784 Patented
 National Class: * 435069100; 435240200; 435252300; 435254110;
 435320100; 536023500
 IPC: * C12N-015/12; C12N-015/63; C12N-005/10; C12N-001/21
 CA Abstract No: * 114(13)116377E
 Derwent WPI Acc No: * C 89-192701
 Language of Document: English
 Patent (No,Kind,Date): US 5599904 A 19970204
 CHIMERIC STEROID HORMONE SUPERFAMILY RECEPTOR PROTEINS (English)
 Patent Assignee: SALK INST FOR BIOLOGICAL STUDI (US)
 Author (Inventor): EVANS RONALD M (US); ONG ESTELITA S (US); SEGUI
 PRUDIMAR S (US); THOMPSON CATHERINE C (US); UMESONO KAZUHIKO (US);
 GIGUERE VINCENT (CA)
 Priority (No,Kind,Date): US 845857 A 19920303; US 546570 B3
 19900806; US 276536 A3 19881130; US 128331 B2 19871202
 Applic (No,Kind,Date): US 845857 A 19920303
 Addnl Info: 4981784 Patented
 National Class: * 530350000; 435069100; 435069700; 935036000
 IPC: * C07K-019/00; C07K-014/705
 CA Abstract No: * 114(13)116377E
 Derwent WPI Acc No: * C 89-192701
 Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):

US 4981784	P	19871202	US AA	PRIORITY
			US 128331 B2	19871202
US 4981784	P	19881130	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 276536 A	19881130
US 4981784	P	19890123	US AS02	ASSIGNMENT OF ASSIGNOR'S
			INTEREST	
			SALK INSTITUTE FOR BIOLOGICAL STUDIES, THE,	
			SAN DIEGO, CA A CA NOT-FOR-PROFIT CO ; EVANS,	
			RONALD M. : 19881202; ONG, ESTELITA S. :	
			19881202; SEGUI, PRUDIMAR S. : 19881202;	
			THOMPSON, CATHERINE C : 19881202;	
US 4981784	P	19910101	US A	PATENT
US 4981784	P	19931228	US AS02	ASSIGNMENT OF ASSIGNOR'S
			INTEREST	
			SALK INSTITUTE FOR BIOLOGICAL STUDIES, THE	
			10010 NORTH TORREY PINES ROAD LA JOLL ;	
			GIGUERE, VINCENT : 19881209	
US 5171671	P	19871202	US AA	PRIORITY

		US 128331	B2	19871202	
US 5171671	P	19881130	US AA	PRIORITY	
		US 276536	A3	19881130	
US 5171671	P	19900806	US AE	APPLICATION DATA (PATENT)	
		(APPL. DATA (PATENT))			
		US 546256	A	19900806	
US 5171671	P	19921215	US A	PATENT	
US 5171671	P	19940531	US DC	DISCLAIMER FILED	
		931214			
US 5171671	P	19941101	US CC	CERTIFICATE OF CORRECTION	
US 5171671	P	20010501	US RF	REISSUE APPLICATION FILED	
		(REISSUE APPL. FILED)			
		20010131			
US 5274077	P	19871202	US AA	PRIORITY	
		US 128331	B2	19871202	
US 5274077	P	19881130	US AA	PRIORITY	
		US 276536	A3	19881130	
US 5274077	P	19900806	US AA	PRIORITY	
		US 546256	A3	19900806	
US 5274077	P	19921113	US AE	APPLICATION DATA (PATENT)	
		(APPL. DATA (PATENT))			
		US 975777	A	19921113	
US 5274077	P	19931228	US A	PATENT	
US 5274077	P	19940510	US DC	DISCLAIMER FILED	
		940103			
US 5548063	P	19871202	US AA	PRIORITY	
		US 128331	B2	19871202	
US 5548063	P	19881130	US AA	PRIORITY	
		US 276536	A3	19881130	
US 5548063	P	19900806	US AA	PRIORITY	
		US 546570	B3	19900806	
US 5548063	P	19920303	US AA	PRIORITY	
		US 845857	A1	19920303	
US 5548063	P	19940111	US AE	APPLICATION DATA (PATENT)	
		(APPL. DATA (PATENT))			
		US 179912	A	19940111	
US 5548063	P	19960820	US A	PATENT	
US 5571692	P	19871202	US AA	PRIORITY	
		US 128331	B2	19871202	
US 5571692	P	19881130	US AA	PRIORITY	
		US 276536	A3	19881130	
US 5571692	P	19900806	US AA	PRIORITY	
		US 546570	B3	19900806	
US 5571692	P	19920303	US AA	PRIORITY	
		US 845857	A1	19920303	
US 5571692	P	19931216	US AE	APPLICATION DATA (PATENT)	
		(APPL. DATA (PATENT))			
		US 168686	A	19931216	
US 5571692	P	19961105	US A	PATENT	
US 5599904	P	19871202	US AA	PRIORITY	
		US 128331	B2	19871202	
US 5599904	P	19881130	US AA	PRIORITY	
		US 276536	A3	19881130	
US 5599904	P	19900806	US AA	PRIORITY	
		US 546570	B3	19900806	
US 5599904	P	19920303	US AE	APPLICATION DATA (PATENT)	
		(APPL. DATA (PATENT))			
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WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)

Patent (No,Kind,Date): WO 8905355 A1 19890615

RETINOIC ACID RECEPTOR COMPOSITION AND METHOD (English)

Patent Assignee: SALK INST FOR BIOLOGICAL STUDI (US)

Author (Inventor): EVANS RONALD MARK (US); GIGUERE VINCENT (CA); ONG
ESTELITA SEBASTIAN (US); SEGUI PRUDIMAR SERRANO (US); UMESONO
KAZUHIKO (US); THOMPSON CATHERINE CAROLINE (US)

Priority (No,Kind,Date): US 128331 A 19871202; US 276536 A
19881130

Applic (No,Kind,Date): WO 88US4284 A 19881201

Designated States: (National) AU; DK; JP; KR

Filing Details: WO 13000 With international search report; Before
expiration of time limit for amending the claims and to be
republished in the event of the receipt of the amendments

IPC: * C12P-021/02; C12P-019/34; C12P-015/00; C07H-015/12; C12Q-001/68
; C12N-005/00; C12N-001/00; C07K-013/00

CA Abstract No: ; 114(13)116377E

Derwent WPI Acc No: ; C 89-192701

Language of Document: English

WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)

Legal Status (No,Type,Date,Code,Text):

WO 8905355 P 19871202 WO AA PRIORITY (PATENT)

US 128331 A 19871202

WO 8905355 P 19881130 WO AA PRIORITY (PATENT)

US 276536 A 19881130

WO 8905355 P 19881201 WO AE APPLICATION DATA (APPL.
DATA)

WO 88US4284 A 19881201

WO 8905355 P 19890615 WO AK DESIGNATED STATES CITED IN A
PUBLISHED APPLICATION WITH SEARCH REPORT
(DESIGNATED STATES CITED IN A PUBLISHED APPL.
WITH SEARCH REPORT)

AU DK JP KR

WO 8905355 P 19890615 WO A1 PUBLICATION OF THE
INTERNATIONAL APPLICATION WITH THE
INTERNATIONAL SEARCH REPORT (PUB. OF THE
INTERNATIONAL APPL. WITH THE INTERNATIONAL
SEARCH REPORT)